

## ABSTRACT

5        A power-assisted steering system includes a gear mechanism, coupled to a steering  
column, with a gear and a mating gear. The two transmission gears have teeth (4, 5) via which  
they engage with each other, movement and power being transmitted from one gear to the other  
gear via effective profiles of their tooth faces (11, 12). In order to provide a gear mechanism that  
has an enhanced load-bearing capacity and at the same time can be manufactured in a simple and  
10 economical way, the effective profiles of the tooth faces (11, 12) of the gear and the mating gear  
contact over the height ( $h_4$ ,  $h_5$ ) of the teeth (4, 5).